

CTE Course Description and Standards Crosswalk

Course Information	
Course Name	Intro to Plant Sciences
Course Number	81010
Number of High School Credits	.5
Sequence or CTEPS (You must first have the Sequence or CTEPS entered into the EED-CTE system.)	Horticulture
Date of district Course Revision	October 2014
Career & Technical Student Organization (CTSO)	
CTSO embedded in this sequence	FFA
Occupational Standards	
Source of Occupational Standards	The National FFA Organization
Names/Numbers of Occupational Standards	FFA
Registration Information	
Course Description (brief paragraph – as shown in your student handbook or course list)	Introduction to Plant Science creates a foundation of knowledge for students to use in exploration of advanced plant science courses. Students will learn about basic functions of plant growth, categorizing systems for plants, and propagation. The student will also learn how plants are used to enhance our living environs by making landscape designs and flower arrangements. Students who are interested in being botanists, golf course workers, greenhouse managers or workers, soil and water specialists, and plant breeders would be interested in this course.
Instructional Topic Headings (please separate each heading by a semi-colon)	Plant Anatomy and Physiology; Plant Taxonomy; Plant Reproduction; Environment Enhancement and Design; Career Exploration; Industrial Safety Standards
Summative Assessments and Standards	
Technical Skills Assessment (TSA)	No
Course addresses:	
New Alaska ELA and Math Standards	Yes
Alaska Cultural Standards	Yes
All Aspects of Industry (AAI)	Yes
Core Technical Standards	Yes
Employability Standards	Yes
Employability Standards	
Source of Employability Standards	Alaska Employability/ Career Readiness Standards
Tech Prep	
Current Tech Prep Articulation Agreement? (Y/N)	No
Date of Current Agreement	
Postsecondary Institution Name	
Postsecondary Course Name	

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Postsecondary Course Number	
# of Postsecondary Credits	

Additional CTE Course Information

Author	
Course developed by	Don Berberich
Course adapted from	Intro to Plant Science
Date of previous course revision	May 2009
Course Delivery Model	
Is the course brokered through another institution or agency? (Y/N)	No

Standards Alignment

Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability / Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
Apply principles of anatomy and physiology to produce and manage plants in both a domesticated and natural environment.	PS.01 PS.02	AG-PL 2 AG-PL 3	RI.9-10.1 W.11-12.9 A-B RST.11-12-9	S-IC.6	A1, B2, C1, E1, E2, E4	A2	Technical Skills	Floriculture Career Development Event – FFA
Address taxonomic or other classifications to explain basic plant anatomy or physiology.	PS.01 PS.02	AG-PL 2	RST.11-12.5 RST.11-12.10 WHST.11-12.9	S-IC.6	B2	A2	Technical Skills	Floriculture Career Development Event – FFA
Apply fundamentals of production and harvesting to produce plants.	PS.02 PS.03	AG-PL 1 AG-PL 3	W.11-12.9.A-B	N-Q.1 N-Q.3 A-APR.7 G-GMD.3	B2, B3	A2	Technical Skills	Floriculture Career Development Event – FFA
Exercise elements of design to enhance an environment.	PS.04	AG-PL 1	RST.11-12.10	S-IC.6 S-MD.6&7	B2, B3	A2, A5	Health/Safety	Floriculture Career

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Student Performance Standards (Learner Outcomes or Knowledge & Skill Statements)	Specific Occupational Skills Standard	Common Technical Core Standards	New Alaska ENG/LA Standards	New Alaska Math Standards	Alaska Cultural Standards	Employability / Career Readiness Standards	All Aspects of Industry/ Systems	Assessment
			RST.11-12.9 W.9-10.3. A-E					Development Event – FFA
Survey career opportunities in plant science, exhibit leadership skills, and develop a supervised agricultural experience program (SAE).	CS.01 CS.02 CS.03 CS.04 CS.05 CS.08	AG 5	RI.11-12.7 SL.11-12.1.A-D	S-MD.6&7	B2, B3, C1, C2, E1, E2	A 1-7 B 1-5	Work Habits	Job Interview Career Development Event – FFA Supervised Agricultural Experience Program (SAEP)
Perform and model safe operation of tools and equipment in a field/lab setting.	CS.06 CS.07 CS.08	AG-PL 3 AG-FD 1	SL.9-10.4	S-MD.6&7	B2	A6	Technical Skills Health/ Safety	Agricultural Mechanics career Development Event - FFA
Participate in a CTSO (FFA)	CS.01 CS.02 CS.04	AG 5	SL.11-12.4 SL.11-12.5 SL.11-12.6	N-Q.1 N-Q.3	B2		Work Habits	Agricultural Mechanics career Development Event - FFA

Instructional Resources

List the major instructional resources used for this course: (websites, textbooks, essential equipment, reference materials, supplies)

Recommended Text: Introduction to Horticulture, 6th edition; Publisher: Delmar; Author: Reiley and Shry; ISBN#: 0-7668-1567-6

The Nation FFA Organization; FFA; www.ffa.org

Illinois Occupational Skill Standards; Greenhouse/Nursery Cluster; IL

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Alaska Department of Education and Early Development